

5M/BOT-302 (Th) Syllabus-2023

2 0 2 5

(Nov-Dec)

FYUP : 5th Semester Examination

MAJOR

BOTANY

(**Plant Ecology**)

BOT-302

Marks : 56

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

Answer Question No. **1** which is compulsory
and *any four* from the remaining questions,
selecting **one** from each Section

1. Write short notes on the following : $4 \times 4 = 16$
- (a) Landscape as an ecological level
 - (b) Morphological adaptation of epiphytes
 - (c) Ecotone
 - (d) Food web

(2)

SECTION—I

2. What is physiographic factor? Describe topographic factor and the importance of altitude and latitude on plant distribution. $2+8=10$
3. Write comparative accounts of the following : $5 \times 2 = 10$
- (a) Ecosystems and biomes
- (b) Population and community

SECTION—II

4. Write short notes on the following : $5 \times 2 = 10$
- (a) Survivorship curve
- (b) Population growth
5. Write short notes on the following : $5 \times 2 = 10$
- (a) Positive population interactions with examples
- (b) Attributes of a community

SECTION—III

6. Write a note on the flow of energy in an ecosystem. Explain the concept using the box and pipe model of energy flow. $4+6=10$

26D/746

(Continued)

(3)

7. What are biogeochemical cycles? Describe the hydrological cycle. $3+7=10$

SECTION—IV

8. What are ecological adaptations? With suitable examples, give an account of hydrophytic adaptations. $4+6=10$
9. Differentiate between primary and secondary ecological succession. Describe the different stages of ecological succession on a xeric condition. $4+6=10$

26D—900/746

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